

## **Opalescent Diamonds from Juina, MS**

HARALYI, N.L.E. IGCE-UNESP, Rio Claro, Brazil.

White (not colorless) diamonds are known to exist and are considered as collector's items. Their appearance is related to the reflection of the incident light by microscopic inclusions dispersed in the diamond crystal.

Besides intrinsic color modifiers those diamonds sometimes do show a play of colors. They do show a range of brownish -red, orange, yellow and greenish yellow phenomenal colors. Density has been determined for a completely white opalescent diamond from Juina at northwest Mato Grosso State, Brazil, as  $3.4605 \pm 0.0004 \text{g/cm}^3$ . This value is about 1.5% lower than that of pure diamonds indicating that the inclusions do have lower specific gravity than of the host diamond.

Spectral analysis do show a broad band of lower absorbance centered at the corresponding observed colors. The more homogeneous the sizes of the inclusions and more included the stones, more saturated are the observed phenomenal colors.